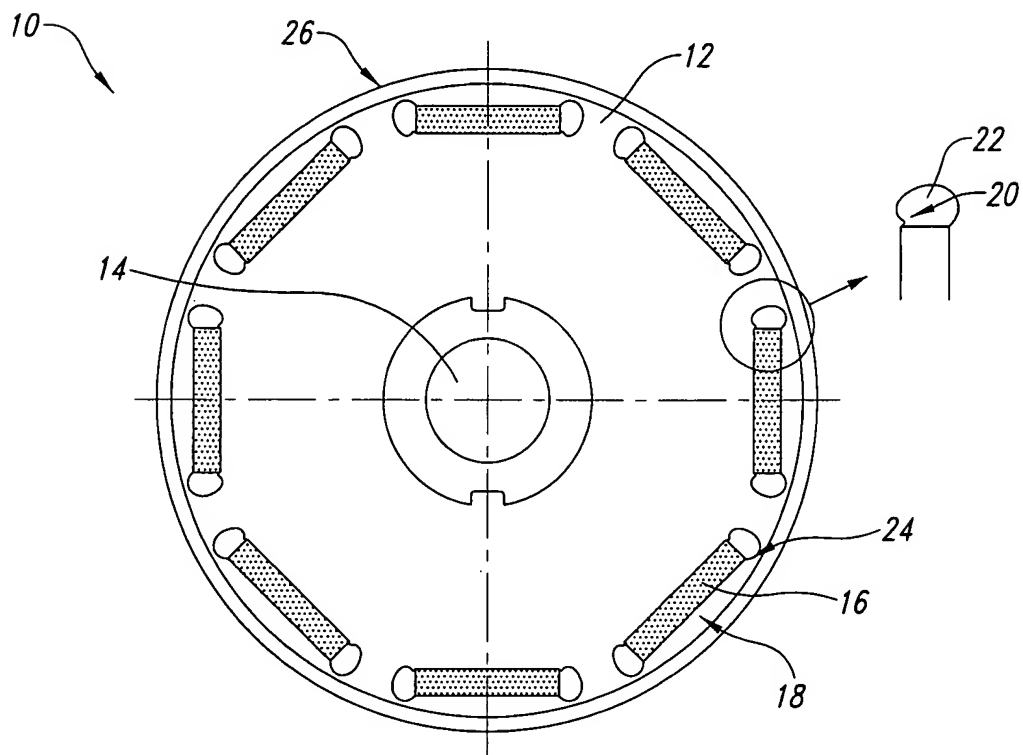


*FIG. 1A*



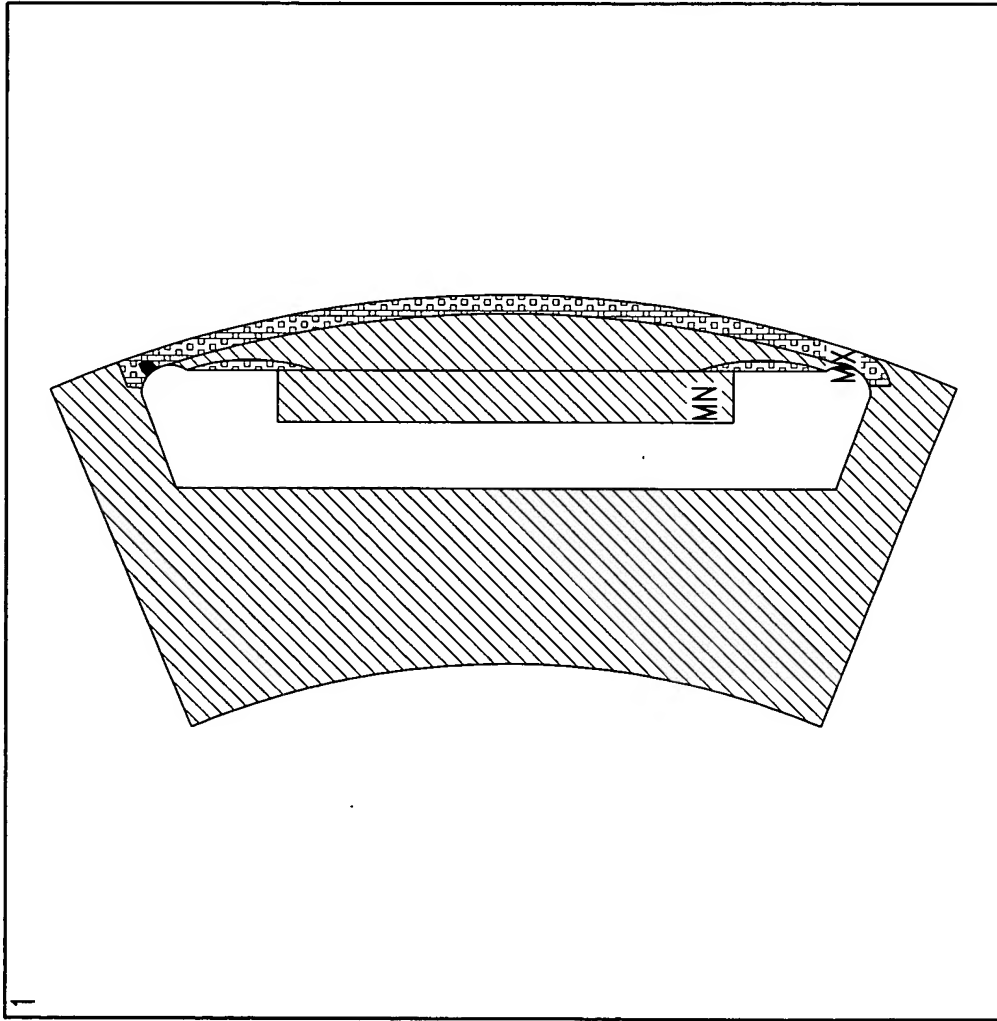
*FIG. 1B*



With no filler

ANSYS Graphics PLNSOL,S,EQV,0,1

ANSYS 5.6.1  
 FEB 15 2001  
 15:47:19  
 NODAL SOLUTION  
 STEP=1  
 SUB=1  
 TIME=1  
 SEQV (AVG)  
 PowerGraphics  
 EFACET=1  
 AVRES=Mat  
 DMX=.564E-03  
 SMN=.115E+08  
 SMX=.504E+10  
 .115E+08  
 .570E+09  
 .113E+10  
 .169E+10  
 .224E+10  
 .280E+10  
 .336E+10  
 .392E+10  
 .448E+10  
 .504E+10



At speed 15000 rpm—maximum stress in iron 5000 MPa

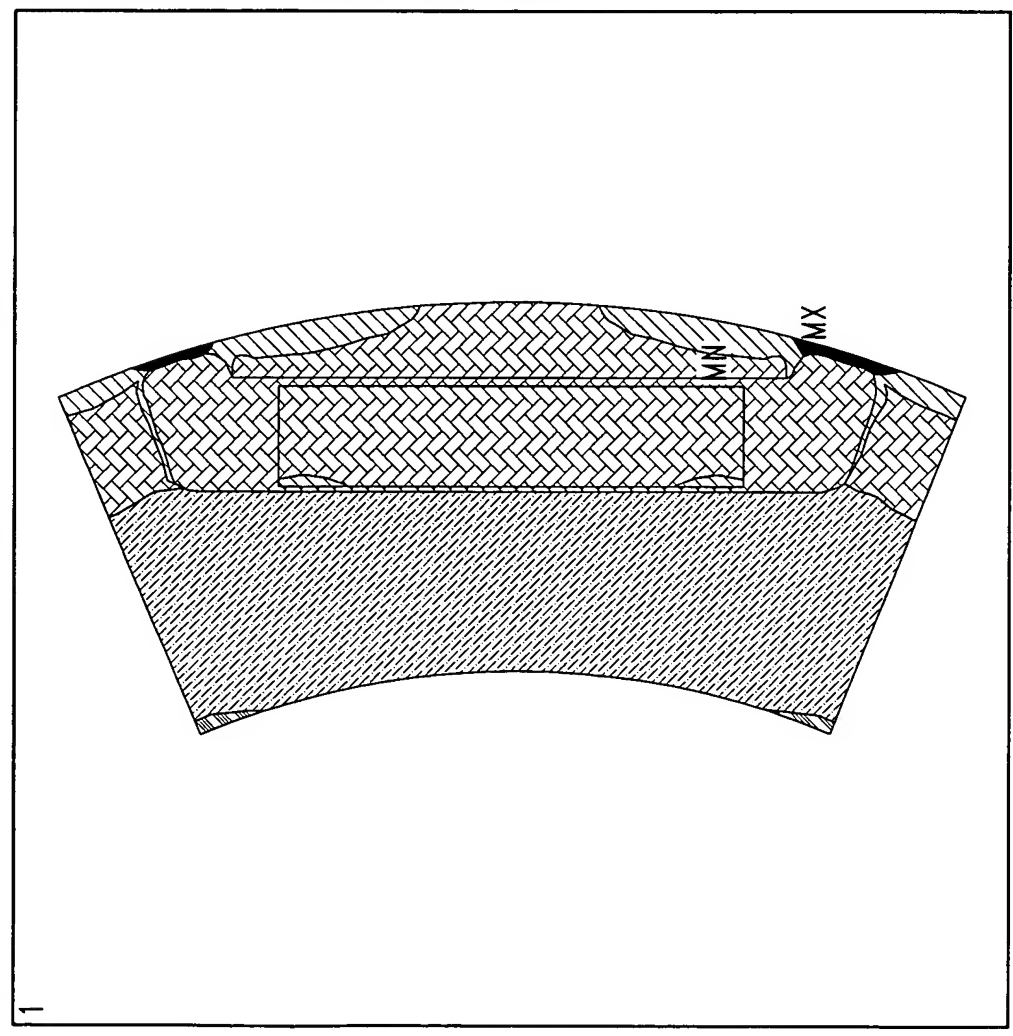
FIG. 5



With epoxy resin filler

ANSYS Graphics PLNSOL,S,EQV,0,1

ANSYS 5.6.1  
FEB 15, 2001  
13:08:59  
NODAL SOLUTION  
STEP=1  
SUB=1  
TIME=1  
SEQV (AVG)  
PowerGraphics  
EFACET=1  
AVRES=Mat  
DMX=.325E-04  
SMN=311452  
SMX=.286E+09  
311452  
.321E+08  
.639E+08  
.956E+08  
.127E+09  
.159E+09  
.191E+09  
.223E+09  
.255E+09  
.286E+09



At speed 15000 rpm—maximum stress in iron 286 MPa

FIG. 6